ASCE 1975

COMBINED INDEX

ASCE 1975

Journals (Proceedings)
Civil Engineering,
Transactions,
Manuals and Reports,
and
Miscellaneous Publications

$5.00 (net)

INDEX TO 1975 ASCE PUBLICATIONS

FOREWORD

The 1975 index, which provides a guide to information published by ASCE during 1975, combines material appearing in the Journals (Proceedings Vol. 101), CIVIL ENGINEERING (Vol. 45), Transactions (Vol. 140), Manuals and Reports, and Miscellaneous Publications.

The user will find all articles and papers dealing with specific subject areas listed under one or more appropriate subject headings suggested by the content and application of the paper. The Engineers Joint Council "Thesaurus of Engineering Terms" has been used as the primary source of index terms. The Water Resources Thesaurus of the U.S. Department of the Interior and the Micro-Thesaurus compiled by the Soil Mechanics and Foundations Division of ASCE were also used.

The Index can be used in conjunction with the information-retrieval cards printed in the front of each Journal and to the rear of CIVIL ENGINEERING. The underlined and bold key words on the information-retrieval cards are the words used as index terms in the 1975 Index.

The name index contains entries indexed under the names of author, co-authors, discussers, chairmen of committees preparing reports, and deceased members whose memoirs appeared in Transactions.

In the name index, the entry for a Proceedings Paper (under the first name if more than one author) is supplemented by information concerning the discussion, closure, and Transactions digest, if applicable. To find what discussion, if any, there has been for a Proceedings Paper located in the subject index, the reader looks under the entry for the first-named author in the name index. When discussion of a paper from a prior year is published, the original entry is repeated. Discussion over a period of time can be traced until the closure to the paper is located.

When the paper appears in Transactions, the complete entry including original paper, discussion, closure, errata (if applicable), and Transactions citation appears in the name index. The subject entry contains a citation to the original paper and the Transactions reference.

Typical abbreviations used herein are:

Dsc for discussion
Clo for closing discussion
Corr for corrections
Err for errata
Chmn for Chairman of a committee submitting a report
TR for Transactions
TN for Technical Note

Items indexed from ASCE Miscellaneous Publications have the following symbols in the references:

1. CE14—Proceedings of the Fourteenth Coastal Engineering Conference, June 24-28, 1974
2. URQQ—Proceedings of a Research Conference—Urban Runoff: Quantity and Quality, Aug. 11-16, 1974
3. EFSU—Proceedings of Engineering Foundation Conference "Need for National Policy for the Use of Underground Space," June 25-29, 1973
4. UT74—Transportation Facilities Workshop: Passenger, Freight and Parking, May 22-24, 1974
5. IR74—Proceedings of Specialty Conference "Contribution of Irrigation and Drainage to the World Food Supply," Aug. 14-16, 1974
6. WSDC—Wood Structures—A Design Guide and Commentary, 1975
7. SOSD—Engineering Foundation Conference—Safety of Small Dams, Aug. 4-9, 1974
8. HTE—Engineering Foundation Conference—Assessment of Resources and Needs in Highway Technology Education, July 14-19, 1974
9. GT75—Proceedings of Conference on In-Situ Measurement of Soil Properties, June 1-4, 1975, Vol. I
10. EFPS—Engineering Foundation Conference—Converting Existing Hydro-Electric Dams and Reservoirs into Pumped Storage Facilities, Aug. 18-23, 1974
11. IAWRS—Proceedings of Conference on Interdisciplinary Analysis of Water Resource Systems, June 19-22, 1973
12. WAVES—Proceedings of the International Symposium on Ocean Wave Measurement and Analysis, Sept. 9-11, 1974
13. SCL—Design and Construction of Steel Chimney Liners, by the Task Committee on Steel Chimney Liners, Fossil Power Committee, Power Division, 1975

14. PSC–Port Structure Costs, by the Task Committee on Port Structure Costs, 1974
15. GT74–Proceedings of the Conference on Analysis and Design in Geotechnical Engineering, June 9-12, 1974, 2 vols.
16. IR-WM75–Symposium on Watershed Management, Aug. 11-13, 1975
17. IR75–Specialty Conference on Irrigation and Drainage in an Age of Competition for Resources, Aug. 13-15, 1975
18. MOD75–Symposium on Modeling Techniques, Sept. 3-5, 1975
19. RM15–Fifteenth Symposium on Rock Mechanics–Applications of Rock Mechanics, Sept. 17-19, 1973
20. STN75–Second ASCE Specialty Conference on Structural Design of Nuclear Plant Facilities, Dec. 8-10, 1975

Preprints are indicated by the words Preprint and the preprint number and date. They were presented at ASCE National Meetings as follows:

Preprints	*Meeting*	*City*	*Date*
1867-2516	Structural Engineering Convention and Exposition	New Orleans, La.	April 14-18, 1975
2517-2632	Annual Convention and Exposition	Denver, Colo.	Nov. 3-7, 1975

Journal Abbreviations: Construction (CO), Engineering Mechanics (EM), Environmental Engineering (EE), Geotechnical Engineering (GT), Hydraulics (HY), Irrigation and Drainage (IR), Power (PO), Structural (ST), Surveying and Mapping (SU), Transportation Engineering (TE), Urban Planning and Development (WW). Papers sponsored by the Department of Professional Activities appear in "Engineering Issues–Journal of Professional Activities" and are identified by the symbols (EI). Papers appearing in the Transportation Engineering Journal of ASCE include papers approved by the Air Transport, Highway, Pipeline and Urban Transportation Divisions.

The original publication can be found from the index entry as follows: Papers appearing in the Journals (Proceedings) are listed as:

GT4: Apr 75: 361: 11245

which would indicate a paper published in the Journal of the Geotechnical Engineering Division, April 1975 on page 361, as Proceedings Paper 11245.

The Transactions entry

TR: 140:434

indicates that the Digest appears in Transactions, Volume 140, on page 434.

Articles and news items published in CIVIL ENGINEERING are represented as:

CE: Oct 75:97

which states that the article appeared in CIVIL ENGINEERING in the October 1975 issue on page 97.

In addition to articles, the following Departments of CIVIL ENGINEERING are indexed: ASCE News, Engineers Notebook, News Briefs, The Readers Write, and The Younger Viewpoint.

Items indexed from Vol. 101 (1975) of the Journals are identified by months. The number of Journals published by a Division in 1975 can be obtained from the number after the last Division abbreviation i.e., GT12, Dec. 1975 identifies the twelfth issue of the Journal of the Geotechnical Engineering Division. The complete list of paper numbers and Journals for 1975 is as follows:

Month	Paper Numbers	CO	EM	EE	EI	GT	HY	IR	PO	ST	SU	TE	UP	WW
Jan.	10250-10301				1	1	1			1				
Feb.	10302-10376		1	1		2	2			2		1		1
Mar.	10372-10436	1				3	3	1		3				
Apr.	10437-10503		2	2	2	4	4			4				
May	10504-10562					5	5			5		2	1	2
June	10563-10632	2	3	3		6	6	2		6				
July	10633-10691				3	7	7		1	7				
Aug.	10692-10767		4	4		8	8			8		3		3
Sept.	10768-10833	3				9	9	3		9				
Oct.	10834-10895		5	5	4	10	10			10	1			
Nov.	10896-10469					11	11			11		4	2	4
Dec.	10470-11035	4	6	6		12	12	4		12				

This annual index has been composed using magnetic tapes of all 1975 entries. To make future issues more useful, interested persons should submit their suggestions for further improvement to:

Information Services
ASCE
345 East 47th Street
New York, New York 10017

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New Orleans Ferry System: A Rebirth, Charles P. Barnard, Preprint No.2485, Apr 75, 19pp.
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Inelastic Structural Response to 2D Ground Motion, David A. Pecknold, EM5:Oct 74:949:10846

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Numerical Biaxial Characterization for Concrete, Karl M. Romstad, Michael A. Taylor and Leonard R. Herrmann, EM5:Oct 74:935:10879
R/C Column Earthquake Response in Two Dimensions, A. Emin Aktan, David A. Pecknold and Mete A. Sozen, ST10:Oct 74:1999:10864

Bibliographies
Bibliography on Timber Highway Bridge Design, Thomas G. Williamson, Chmn., ST1:Jan 75:1:11042
Bibliography on Wood and Plywood Diaphragms, J. M. Carney, ST11:Nov 75:2423:11737
Civil Engineering Applications of Remote Sensing, David J. Barr and Wesley P. James, TE2:May 75: 279:11300
Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, Lawrence E. Miller, Chmn., UP2:Nov 74:115:10939
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Model Form of 'Notice to Bidders', Woodrow W. Wilson, Chmn., CO3:Sept 74:373:10818
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Water Quality Model of a Salt-Wedge Estuary, Edmund A. Prych and William L. Haushild, MOD75:Sept 75:1138

Bioengineering
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Biographies
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Biological Surveys
Slime Holdup, Influent BOD, and Mass Transfer in Trickling Filters, Bernard Atkinson and John A. Howell, EE4:Aug 75:585:11505

Biological Treatment
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Oxygen Theory in Biological Treatment Plant Design, Dilip S. Mehta, Harry H. Davis and Robert P. Kingsburg, SA3:June 72:471:8938

Biology
Principle of Management of Degenerated Inlets and Estuaries, Marcel Frenette, Yvon Ouellet, Albert Poire and Jean-Louis Verrette, MOD75:Sept 75:315

Biomass
Biomass Distribution and Kinetics of Baffled Lagoons, James H. Reynolds, Stephen B. Nielson and E. Joe Middlebrooks, EE6:Dec 75:1005:11787

Biomechanics
Analysis of the Stress State of the Aortic Valve, Talat Korman and Ray Vanderby, Jr., Preprint No.2481, Apr 75, 12pp.
Application of Single Alveolus Model to Lung Elasticity Problems, George C. Lee and Andrew Frankus, Preprint No.2476, Apr 75, 19pp.
Development of Computational Methods for Biofluid Dynamics, Tin-Kan Hung, Preprint No.2477, Apr 75, 25pp.
Development of Finite Element Head Injury Model, Theodore A. Shugar and Michael G. Katona, EM3: June 75:223:11367
Structural Modeling of Human Head, Sunder H. Advani and Raymond P. Owings, EM3:June 75: 257:11386
Structural Response of the Human Femur to Axial Loads, Sunder H. Advani, Hota V.S. GangaRao, R. Bruce Martin and Houng-Yue Chang, Preprint No.2455, Apr 75, 20pp.

Bitumens
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Blast Resistant Structures
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Blood Flow
Development of Computational Methods for Biofluid Dynamics, Tin-Kan Hung, Preprint No.2477, Apr 75, 25pp.
Plane Oscillatory Flow Past Rectangular Obstacles, Le-Chung Cheng, Marlyn E. Clark and James M. Robertson, EM4:Aug 74:707:10719

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Fifty Years Development in Bolted and Welded Steel Construction, William H. Munse, Preprint No.2596, Nov 75, 19pp.
Light-Gage Steel Bolted Connections without Washers, Ken P. Chong and Robert B. Matlock, ST7:July 75:1381:11433

Sustained and Fluctuating Loading on Bolted Joints, Geoffrey D. Base, Lewis C. Schmidt, Donald S. Mansell and Leonard K. Stevens, ST10:Oct 73: 2123:10055

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Book Paper
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Boundary Conditions
The Effect of Grain Rotations on the Deformation of a Granular Medium, Roger J. Evans, Preprint No.2510, Apr 75, 15pp.
Elastic Analysis With Indeterminate Boundary Conditions, Antone F. Sayegh, EM1:Feb 74:49: 10357
Estimation of Boundary Conditions for Coastal Models, Shiao-Kung Liu, Jan J. Leendertse and J. Voogt, CE14:June 74:2122
Implicit Numerical Modeling of Unsteady Flows, Michael Amein and Hsiao-Ling Chu, HY6:June 75: 717:11378
Lower Bounds to Column Buckling Loads, Howard L. Schreyer and Pen-Yuan Shih, EM5:Oct 73:1011: 10064
Shallow Spherical Shells Under Apex Loads, Isadore K. Silverman and John R. Mays, ST1:Jan 74:249: 10262
Some Hard Lessons in Numerical Hydraulics, R. H. Multer, MOD75:Sept 75:208

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Flow Through Annulus with Large Radial Clearance, M. H. Abdul Khader and H. Suresh Rao, HY1:Jan 74:25:10265
A Threedimensional Model of a Homogeneous Estuary, Jurgen Sundermann, CE14:June 74:2337

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News in Bridge Decks, Kneeland A. Godfrey, Jr., CE:Aug 75:60
Practical Considerations in Design of Orthotropic Decks, Charles Seim, Preprint No.2480, Apr 75, 20pp.
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Model Studies of Multicell Curved Box-Girder Bridges, Mohammad Aslam and William G. Godden, EM3:June 75:207:11366
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Pine Valley Creek--a First, A. P. Bezzone, CE:Aug 74:72
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Segmental Bridges in Oregon, Louis F. Pierce, Preprint No.2444, Apr 75, 20pp.
World's Top Prestressed Structures, 1970-74, CE:Aug 74:68

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Enclosed Soak System for Deep Polymer Impregnation of Concrete Bridge Decks, Paul R. Blankenhorn, Richard E. Weyers, Donald E. Kline and Philip D. Cady, TE1:Feb 75:65:11102
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Practical Considerations in Design of Orthotropic Decks, Charles Seim, Preprint No.2480, Apr 75, 20pp.
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Los Angeles Pioneers Separate Busway, Richard C. Gallagher, CE:Jan 75:64
Segmental Bridges in Oregon, Louis F. Pierce, Preprint No.2444, Apr 75, 20pp.
Skew and Elevated Support Effects on Curved Bridges, Donald W. Funkhouser and Conrad P. Heins, Jr., ST7:July 74:1379:10670
Theoretical Analysis of Curved Girder Bridges, Terry R. Douglas and Samuel C. Gambrell, Jr., EM5:Oct 74:991:10871

Bridges (Highway)
Airport Overpass is Technical Esthetic Winner, Yue-Chyou Yang and Kam-Shing Lo, CE:July 74:50
Bibliography on Timber Highway Bridge Design, Thomas G. Williamson, Chmn., ST1:Jan 75:1:11042
Bridge Loading Spectra and Fatigue Design, Fred Moses, Preprint No.2470, Apr 75, 27pp.
Enclosed Soak System for Deep Polymer Impregnation of Concrete Bridge Decks, Paul R. Blankenhorn, Richard E. Weyers, Donald E. Kline and Philip D. Cady, TE1:Feb 75:65:11102
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Load Factor Design of Continuous Span Bridges, Conrad P. Heins and Alan D. Kurzweil, Preprint No.2412, Apr 75, 29pp.
Polymer-Impregnated Concrete: Field Studies, Harshavardhan C. Mehta, John A. Manson, Wai F. Chen and John W. Vanderhoff, TE1:Feb 75:1:11103
Straight and Curved Box-Beam Models with Concentrated Loads, Ish K. Aneja and Frederic Roll, Preprint No.2512, Apr 75, 32pp.
Use of Polymers in Highway Concrete, Wai F. Chen, John A. Manson, Harshavardhan C. Mehta and John W. Vanderhoff, Preprint No.2472, Apr 75, 29pp.

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Fifty-Year History of Movable Bridge Construction - Part I, Egbert R. Hardesty, Henry W. Fischer and Richard W. Christie, CO3:Sept 75:511:11565
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Bridges (Movable)
Fifty-Year History of Movable Bridge Construction - Part I, Egbert R. Hardesty, Henry W. Fischer and Richard W. Christie, CO3:Sept 75:511:11565
Fifty-Year History of Movable Bridge Construction-Part II, Egbert R. Hardesty, Henry W. Fischer and Richard W. Christie, CO3:Sept 75:529:11594
Fifty-Year History of Movable Bridge Construction—Part III, Reece H. Wengenroth, Howard A. Mix and Egbert R. Hardesty, CO3:Sept 75:545:11555

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Cable-Stayed versus Classical Suspension Bridge, Walter Podolny, Jr., Preprint No.2421, Apr 75, 30pp.
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Practical Considerations in Design of Orthotropic Decks, Charles Seim, Preprint No.2480, Apr 75, 20pp.
Short Span Bridges, Kneeland A. Godfrey, Jr., CE: July 75:42
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Bibliography on Timber Highway Bridge Design, Thomas G. Williamson, Chmn., ST1:Jan 75:1:11042
Bridge Construction Surveying, Ray W. Burgan, Jr., CO2:June 74:105:10602
Bridge Features Cable Stays, Precast Segmental Deck, Herbert B. Rothman and Fu-Kuei Chang, CE:Mar 74:56
Bridges: The Spans of North America by David Plowden (Book Review), Nomer Gray, CE:Mar 75: 32
Cabin John Bridge - A Washington Landmark, Donald B. Myer, PP3:July 73:353:9885
Cable-Stayed versus Classical Suspension Bridge, Walter Podolny, Jr., Preprint No.2421, Apr 75, 30pp.
California's Seismic Design Criteria for Bridges, James H. Gates, Preprint No.2607, Nov 75, 30pp.
Case Study of Burr Truss Covered Bridge, Emory L. Kemp and John Hall, EI3:July 75:391:11461
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Fifty-Year Development — Construction of Steel Pipeline Suspension Bridges, John F. Cain, CO4: Dec 75:733:11768
Fifty-Year Development: Construction of Steel Arch Bridges, William F. Hollingsworth, CO1:Mar 75:85: 11187
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Fifty-Year Development: Construction of Steel Hybrid Bridges, Ralph F. Trepal, CO4:Dec 75:719: 11765
Fifty-Year History of Movable Bridge Construction - Part I, Egbert R. Hardesty, Henry W. Fischer and Richard W. Christie, CO3:Sept 75:511:11565
Fifty-Year History of Movable Bridge Construction— Part III, Reece H. Wengenroth, Howard A. Mix and Egbert R. Hardesty, CO3:Sept 75:545:11555
Fracture Sensitivity of Dynamically Loaded Girders, Donald S. Mansell and Peter Dobos, ST12:Dec 75: 2523:11754
Laminated Timber Logging Bridges in British Columbia, Richard G. Scarisbrick, Preprint No.2442, Apr 75, 24pp.
Los Angeles Pioneers Separate Busway, Richard C. Gallagher, CE:Jan 75:64
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Maintenance of Services during Construction, Claude Cossette and Ernest Zbinden, CO1:Mar 75:155: 11186
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Photoelastic Model of a Cross Frame Connection to the Main Bridge Flange, Alex S. Redner and Leonard Pompa, Preprint No.2424, Apr 75, 25pp.
Pipeline Bridge Uses Timber Arches, Charles Gary Peterson, CE:Feb 75:58
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Limit Design of Slabs Code Considerations — Does ACI 318-71 Allow Yield-Line Design of Slabs?, Sidney H. Simmonds and Amin Ghali, Preprint No.2502, Apr 75, 130pp.
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I-70 Glenwood Canyon — A Design Concept, Joseph H. Looper, Preprint No.2509, Apr 75, 26pp.
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Urban Storm Runoff Model (Abstract), E. W. Rovey and David A. Woolhiser, IR-WM75:Aug 75:655

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Modern Computer Technology and You — Fourth Generation Computers: Fact and Fantasy, Eric I. Field, Preprint No.2501, Apr 75, 130pp.
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Guidelines for Finite Element Idealization — Introduction, Alan M. Ebner, Preprint No.2504, Apr 75, 208pp.
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Data Handling Techniques in Civil Engineering — A Portable FORTRAN Data Manager, Joseph P. Wright, Preprint No.2503, Apr 75, 130pp.

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Regional Analysis of Economic Activity, Resource Management and Lake Eutrophication: A Case Study of Itasca County, Minnesota, A. P. O'Hayre and A. C. Mace, IR-WM75:Aug 75:597
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Civil Engineers in Urban Planning, Fifty Years of Accomplishment, 1923-1973, Lawrence E. Miller, Chmn., UP2:Nov 74:115:10939
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Plastic Design

ICES PLADS I: A Practical Approach to the Plastic Design of Hi-Rise Steel Building Frames, Leroy Z. Emkin and Michael H. Swanger, Preprint No.2500, Apr 75, 30pp.
Plastic Strength of Circular Steel Tubes, Donald R. Sherman, Preprint No.2514, Apr 75, 14pp.
Rectangular Grillages of Least Weight, George I.N. Rozvany and Sai R. Adidam, EM6:Dec 72:1337: 9404
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Wood Structures: A Design Guide and Commentary, James R. Goodman, Chmn. and Thomas G. Williamson, Chmn., WSDC:75, 416pp.

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Social Science Emphasis in Engineering Education, Dan H. Pletta, EI4:Oct 75:509:11664

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Concrete Wall Structures for Highway Noise Reduction, Edwin C. Lokken, Preprint No.2493, Apr 75, 24pp.

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Simulation and Analysis of a Traffic Signal Preemption Bus Priority System, John S. Ludwick, Jr., Preprint No.2557, Nov 75, 30pp.

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The Tornadoes of April 3-4, 1974: Windspeed Analyses, Kishor C. Mehta, Joseph E. Minor and James R. McDonald, Preprint No.2490, Apr 75, 20pp.
Window Glass Failures in Windstorms, Joseph E. Minor and W. Lynn Beason, Preprint No.2486, Apr 75, 26pp.

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Zwarts, C. M.G.
A Transmission Line Wave Height Transducer, CE14:June 74:193

Zwoyer, Eugene
Executive Director Zwoyer Airs ASCE Views on Competitive Bidding, CE:Aug 75:82
A Report from the Executive Director, CE:July 74: 74
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